

WHAT IS CLAIMED IS:

- A,
1. ~~A method of preparing a sequence of signal samples for transmission, comprising the step of:
for each occurrence of two consecutive equivalent samples, replacing the second-occurring equivalent sample with synchronization information.~~
 2. A method of transmitting an incoming sequence of signal samples, comprising the steps of:
for each of said incoming samples,
 - (i) transmitting said sample if said sample is not equivalent to an immediately preceding sample, or
 - (ii) transmitting a synchronization pattern if said sample is equivalent to the immediately preceding sample.
 3. A method of transmitting an input stream of signal samples with synchronization information, comprising the steps of:
sequentially monitoring said samples to detect a match condition characterized by the equivalence of two consecutive samples;
if a match condition is detected, substituting the second-occurring equivalent sample with a synchronization pattern.
 4. The method as recited in claim 3 wherein said substitution step occurs in real time.

5. ~~A system for transmitting a sequence of signal samples~~
received from an input bus, comprising:

storage means coupled to said input bus for temporarily
storing samples;

sample comparison means coupled to said storage means
for comparing each sample with the immediately
preceding sample, and generating a match signal
when said sample is equivalent to the preceding
sample;

output means coupled to said storage means and said
comparison means for transmitting each sample in
the absence of a match signal, and transmitting a
synchronization pattern in the presence of a match
signal.

6. A method of transmitting an incoming sequence of
signal samples and receiving the transmitted samples,
comprising the steps of:

for each of said incoming samples,

(i) transmitting said sample if said sample is
not equivalent to an immediately preceding
sample, or

(ii) transmitting a synchronization pattern if
said sample is equivalent to the immediately
preceding sample;

monitoring said transmissions at a receiving end to
detect the occurrence of said synchronization
pattern; and

outputting a received sample when a synchronization
pattern is not detected, and outputting the
immediately previous received sample when a
synchronization pattern is detected.

~~7. A system for transmitting an incoming sequence of~~
signal samples and receiving the transmitted samples,
comprising:

A₂ transmit means for monitoring said sequence of signal
samples, transmitting a sample if said sample is
not equivalent to an immediately preceding sample,
and transmitting a synchronization pattern if said
sample is equivalent to the immediately preceding
sample;

receive means, coupled to receive said transmission,
for outputting a received sample when a
synchronization pattern is not detected, and
outputting the immediately previous received
sample when a synchronization pattern is detected.